## Exercise 66

Exercises 59-68 tell in what direction and by what factor the graphs of the given functions are to be stretched or compressed. Give an equation for the stretched or compressed graph.

$$
y=\sqrt{4-x^{2}}, \quad \text { compressed vertically by a factor of } 3
$$

## Solution

Multiply the function by $1 / 3$ to compress the graph vertically by a factor of 3 .

$$
y=\frac{1}{3} \sqrt{4-x^{2}}
$$



